MediaLink™

A/V SYSTEM CONTROL & INTEGRATION PRODUCTS

- Universal projector control
- Simplified and centralized room control
- VCR, DVD, and other control options
- Multiple switching capabilities
- Flexible and integrated audio amplification options
- Versatile mounting capabilities

Easy to use and affordable switching and system control

Extron® Electronics
www.camboard.de Tel. 07131 911201 ce-info@camboard.de
Fax 07131 911203

MediaLink™ System

Easy to use, integrate, and expand

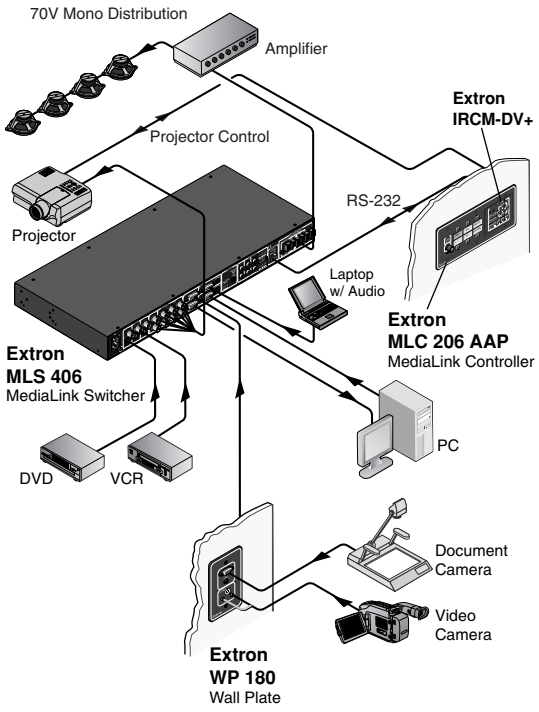
The Extron MediaLink System is a family of easy-to-use and inexpensive products that work together to connect and control A/V equipment in any classroom, conference room or small boardroom. The MLC 206 MediaLink Controller is the cornerstone of the MediaLink System. The flexible MLC 206 is an intuitive remote control panel that provides universal projector and room control.

Projector control is simple and requires only a one-time setup. The MLC 206 uses RS-232 or Infra-Red (IR) methods. User-friendly IR learning capabilities make the MLC 206 compatible with almost every type of IR-controllable display and source device. RS-232 connectivity is a more direct and interactive control than IR control and enables the MediaLink System to provide consistent and reliable system control.

The MLC 206 is housed in a secure, tamper-resistant enclosure which is vital for high traffic areas. It has the same look and functionality no matter where it is mounted: in a lectern, desk, wall, rack, or wall box from room to room. Optional mounting plates are available with Architectural Adapter Plate (AAP) openings, which enable use of AAPs to add signal pass-through connections or device control modules.

For expansion of an A/V system's capabilities, the MLC 206 can be coupled with any of the versatile MediaLink Switchers (MLS)—the MLS 100 A, MLS 102 VGA, MLS 103 SV, MLS 103 V, MLS 304MA, MLS 406, MLS 406MA, MLS 506, MLS 506MA, and MLS 506SA. Each MediaLink Switcher can also be used as stand-alone switchers. MLS switchers are specially designed to complement the MLC 206; however, almost any Extron switcher can work with the MLC 206. As a complete, integrated package, the MediaLink System is built to streamline operations and simplify control by combining audio, video, and computer sources into a centralized, easy-to-use A/V system.

MLC 206 (Controller) and MLS 306 (Switcher) mounted in a lectern



MediaLink™ Controller MLC 206

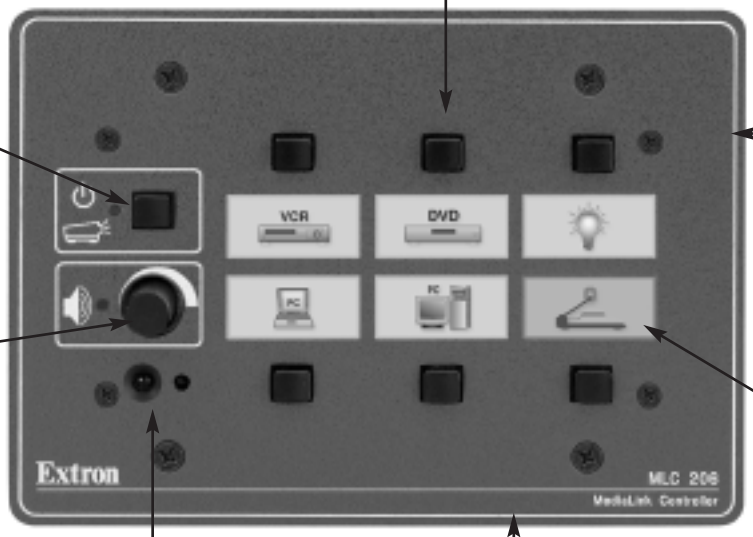
One-touch input selection
Tactile push buttons for intuitive connectivity.

Projector on/off
Easy-to-use, centralized button makes it convenient to power projector on or off and eliminates need for external projector remote.

Variety of mounting options available
Flexibility in installation allows for numerous architecturally-compatible possibilities.

Volume control
Manual volume adjustment of audio levels of projector and/or MediaLink switcher allows for convenient, centralized control without additional remotes.

Backlit label displays
Clear and easy identification for customized labels—particularly effective in low-light environments.



Front Panel

IR learning & control
Pick up devices enable wireless control, as well as customized commands to control projector or other input devices.

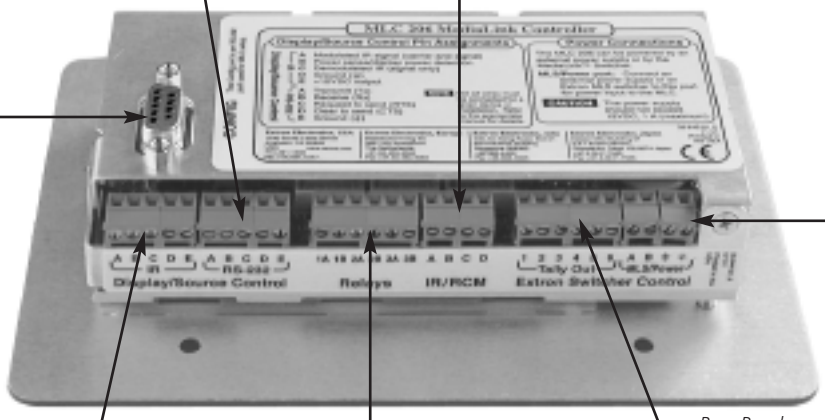
Inactivity timer for display shut-off
Adjustable timer controls automatic shutdown to preserve energy, and projector lamp life.

Projector display control
Allows for RS-232 projector control utilizing easy setup and commands.

Optional control modules
Optional control modules enable operation and customized control of source devices such as VCR or DVD players.

System configuration
Simple one-time setup with easy-to-use, downloadable projector drivers.

Flexible power options
Can be powered with included power supply or optional MediaLink Switcher.



Rear Panel

Display/source control via IR
Enables display and/or source devices to be controlled via infrared commands.

Relays
Three relays are available for simplified and centralized control of room devices such as lighting and screen.

Tally control
Provides control of slaved switchers via contact closure.

MediaLink™ Controller MLC 206

Features

Universal projector control

Extron has been instrumental in developing universal projector control for over 10 years. The MLC 206 MediaLink Controller is capable of communicating with virtually any projector or plasma via IR or RS-232. For simple, one-time setup, control drivers can be downloaded or created using the intuitive software or IR learning.

Centralized room control

Lighting, screen position, motorized drapes, projector lift, and other elements of a room may be controlled through the MLC 206 via internal relays, providing a simple and centralized point of control.

MLC 206 (back view)
Compact size: Fits 3-gang box
(2.75" H x 5.25" W x 1.2" D)

Versatile mounting options

The MLC 206 has several mounting options which can be used to integrate optional control modules or AAPs into a variety of locations. Utilizing the standard three-gang wall plate or an optional five-gang wall plate, the MLC 206 can be mounted in a wall, desk, podium, or lectern. Other optional mounting kits are available for mounting under a desk, in a rack, or wall box.

MLC 206 - Back lit, easy to read displays.

Input selection buttons with secure and customizable labels

Input selection buttons are easily identifiable with clear overlay labels and backlit displays—which are particularly effective in low-light environments. Housed in a secure, tamper-resistant enclosure, the MLC 206's labels can be customized to complement the application while facilitating operations with one-button functionality.

Inactivity timer

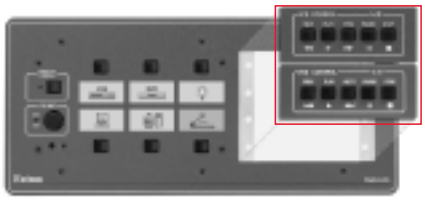
An adjustable timer automatically shuts down the MLC 206 to preserve energy and projector lamp life. By determining a user-defined period of time for powering down the system, equipment longevity is maximized while management, maintenance, and servicing are minimized.

System and audio flexibility

Many projectors support just a few inputs. The MLC 206 can support switchers in applications that require additional inputs. Such flexibility extends itself to the numerous audio possibilities available with the MediaLink family of products. While the MLC 206 offers centralized volume control for both the projector and a switcher, the full line of MediaLink Switchers (MLS) features several other audio enhancements: volume adjustments, loudness control, and bass and treble control. Unbalanced audio can be input or output on all MediaLink Switchers, while some models are equipped with integrated amplifiers that output mono or stereo audio for a 4 or 8 ohm load or 70/100 volt distributed audio system.

Control modules

The MLC 206 is compatible with a wide selection of different Extron IR Control Modules (IRCM) for customized control of source devices such as audio tape decks, VCRs, and DVD players. For example, the optional IRCM-VCR and IRCM-DVD control modules offer remote control of the VCR and DVD player's functions, respectively. With the diversity of a centralized system, the need for multiple remotes—which can often be misplaced and/or confusing—is eliminated and operations are far more efficient.



Extron control modules eliminate the need for multiple remotes.

MLC 206 AAP

Software

Setting Up the MediaLink Controller

MediaLink Control Software

The MLC 206 MediaLink Controller ships with an intuitive graphical control software program for Windows. This Windows-based program can be used for both system control and configuration. The control program's graphical interface enables simple setup and operation of the same functions as those of the MLC 206's front panel. There are also some additional features exclusive to the software. With the software installed, installers can download RS-232 projector control drivers and perform IR learning for projector and source devices such as VCRs and DVD players. The control software is Windows compatible. Software updates and projector drivers can be downloaded from Extron's Web site (http://www.extron.com).

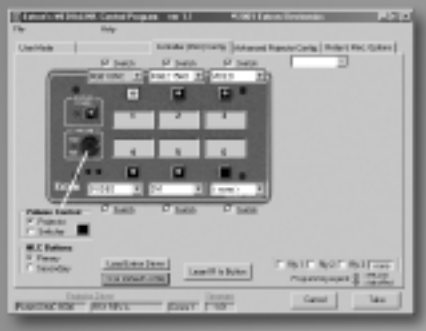


Image 1: A graphical user interface (GUI) of the MLC 206 enables easy configuration and IR learning.

Image 2: Input buttons can be configured for commands and functions from a simple pulldown menu.

Image 3: IR Learning is primarily used for VCR & DVD control when using the infrared control modules (IRCM).

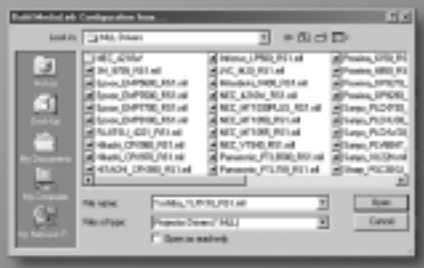


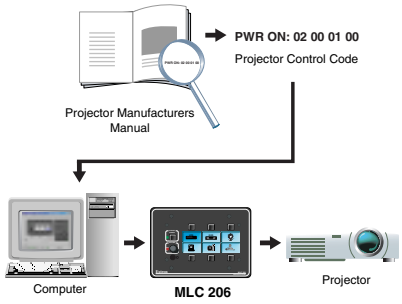
Image 4: Appropriate projector drivers can be installed from a wide selection of projector makes and models.

Projector drivers

Extron creates and administers a wide selection of commonly used projector control drivers. These RS-232 drivers are essential for the MLC 206 to effectively communicate with a display device. They enable the MLC 206 to control basic projector functions such as power, input selection, and volume adjustment. Users can create their own drivers or go to the Extron Web site to download RS-232 drivers aligned with the latest and most popular projectors.

Custom RS-232 control

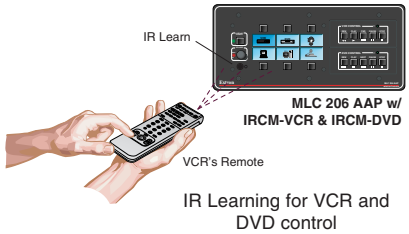
In environments where more customizable projector control is needed, integrators can easily create their own uni-directional RS-232 driver. RS-232 commands can be programmed to any button using a projector manual and MediaLink control software. With a list of commands, users can easily configure the MLC 206 to work with virtually any projector.



Extron software allows for customized projector control

IR learning

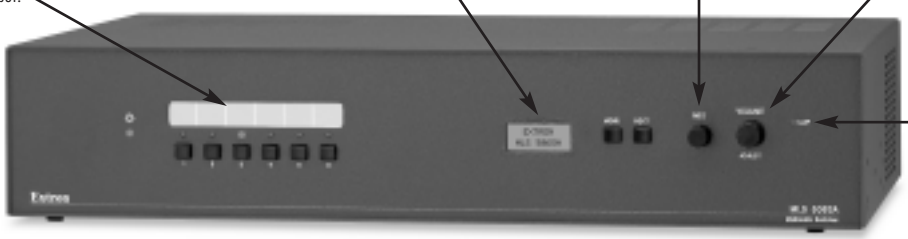
With the MediaLink software, the MLC 206 can learn IR commands from virtually any IR controllable device. In its hardwired form, RS-232 is the preferred method of control; however, many ultra portable projectors can only support IR control. IR learning can also be used in conjunction with optional IR Control Modules (IRCM) that control source devices such as VCRs, DVD players, and audio tape decks.



IR Learning for VCR and DVD control

MediaLink™ Switchers

Six Input Audio/Video Switching



Input selection buttons
Input selection buttons are easily identified with clear, customized labels and corresponding LED illumination to specify the selected input.

LCD and Setup buttons
Easy-to-read menus are used to navigate through switcher options and settings, and provide feedback of input and output levels.

Mix knob (MLS 506MA and MLS 506SA only)
Easily adjusts mix level of Aux/Mix audio input with selected program entry.

Volume/Adjustment knob
Enables convenient control of preamp and amplifier volume.

Clip LED (MLS 506MA and MLS 506SA only)
Monitors audio level and flashes when the audio input levels are too high.

MLS 506SA (Front Panel)

Configurable video inputs
Six female BNC connectors for composite, S-video, YUV, and RGBHV allow for flexible signal integration.

Video / RGB outputs
Allows for all composite, S-video, YUV, and RGB outputs on female BNCs for flexible cable integration.

Integrated audio amplifier
Allows for easier integration while eliminating the need for external audio amplifiers (MLS 506MA & MLS 506SA only).

International power connection and LED
100-240 VAC internal power supply with power status LED for worldwide compatibility.

Multiple control options
Provides a variety of control capabilities and choices to suit the needs of the environment.

MLS 506SA (Rear Panel)

Audio inputs
Accepts six unbalanced audio inputs with individual gain, attenuation, bass, and treble control.

Effects - Send, Return (MLS 506MA and 506SA only)
Allows audio signals to be looped through external processing / equalizing devices.

Auxiliary mix input (MLS 506MA and 506SA only)
Provides auxiliary balanced or unbalanced line level inputs for such devices as wireless microphones or tape decks.

Preamp audio outputs
Fixed and variable outputs for simple connection to mixers and amplifiers.

Seven models available:

MLS 304MA
Four Input MediaLink Switcher with Mono Audio Amplifier
- Compatible with computer-video, composite video, and audio signals
- Provides 20 watt (rms) amplified mono audio output for a 4 or 8 ohm load or 70/100 volt distributed audio system
- MLC 206, RS-232, or front panel control

Part #: 60-550-01

MLS 406 & MLS 406MA
Six Input MediaLink Switchers with Variable Preamp Output or Mono Audio Amplifier
- Compatible with computer-video, S-video, composite video, and audio signals
- Preamp outputs (one fixed and one variable) can be set for mono or stereo via RS-232
- MLS 406MA provides 20 watt (rms) amplified mono audio output for a 4 or 8 ohm load or 70/100 volt distributed audio system
- MLC 206, RS-232, or front panel control

Part #: 60-560-01 (MLS 406)
Part #: 60-560-02 (MLS 406MA)

MLS 506
Six Input MediaLink Switcher with Variable Preamp Audio Output
- Compatible with computer-video, component video, S-video, composite video, and audio signals
- Preamp outputs (one fixed and one variable) can be set for mono or stereo via RS-232
- MLC 206, RS-232, or front panel control

Part #: 60-386-02

MLS 506MA & MLS 506SA
Six Input MediaLink Switchers with Mono and Stereo Audio Amplifiers
- Same compatibility and control as MLS 506
- MLS 506MA provides 30 watt (rms) amplified mono audio output for a 4 or 8 ohm load or 70/100 volt distributed audio system
- MLS 506SA provides 60 watt (rms - 30 watts per channel) amplified stereo audio output for 4 or 8 ohm loads

Part #: 60-386-03 (MLS 506MA – 70v)
Part #: 60-386-13 (MLS 506MA – 100v)
Part #: 60-386-04 (MLS 506SA)

NEW

Compatibility with Extron System Switchers

In addition to working with the MediaLink Switchers, the MLC 206 can also be used with two of Extron's most popular system switchers: The **System 5 IP** and **System 7SC**. Now, users can match the versatile mounting options, various control modules, and intuitive control interface of the MLC 206 with either one of these system switchers for an enhanced integrated system solution. Specialized drivers and Quick Start Guides for these combinations are available at the Download Center of the Extron Web site.

MediaLink VersaTools™ Switchers

Compact Two, Three, and Four Input Audio/Video Switching

Part of the VersaTools line of products, MLS 100 Series switchers are housed in quarter rack width metal enclosures, making them ideal for installation in podiums and other small space areas. Because of their small size, the MLS 100 Series switchers can also be mounted or placed on a shelf along with a VCR and DVD player. MLS 100 Series switchers are designed to be used as stand-alone audio switchers or an add-on for the MLC 206 to facilitate low-cost system integration.

VERSA™ TOOLS

MLS 100 A: MediaLink VersaTools Audio Switcher

Part #: 60-497-01

- **Audio-** The MLS 100 A offers four switchable audio inputs, each with independent gain and attenuation, on 3.5 mm captive screw connectors.
- **Auxiliary mix audio-** An additional input accepts mono line level audio signals for mixing with any of the four switchable inputs.
- **Volume control-** Adjustable when integrated with MediaLink System or as part of a third party RS-232 control system.
- **Control-** Switcher control is available through front panel buttons or RS-232. RS-232 control is provided via Extron's Windows®-based control software, and/or a third party control system using Extron Simple Instruction Set (SIS™). When the switcher is used with the MLC 206, it can remotely control the MLS 100 A's I/O switching and volume control.

MLS 103 V: MediaLink VersaTools Composite Video with Audio Switcher

Part #: 60-497-02

- **Video inputs-** Three composite video inputs on female BNC connectors.
- **Video outputs-** One composite video output on a female BNC connector.
- **Audio-** The MLS 103 V and MLS 103 SV offer four switchable audio inputs, each with independent gain and attenuation, on captive screw connectors.
- **Auxiliary mix audio-** An additional input accepts mono line level audio signals for mixing with any of the four switchable inputs.
- **Control-** Switcher control is available through front panel buttons or RS-232. RS-232 control is provided via Extron's Windows-based control software, and/or a third party control system using Extron Simple Instruction Set (SIS). When the switcher is used with the MLC 206, it can remotely control the MLS 103 V's I/O switching and volume control.

MLS 103 SV: MediaLink VersaTools S-Video with Audio Switcher

Part #: 60-497-03

- **Video inputs-** Three S-video inputs on 4-pin mini DIN connectors.
- **Video outputs-** One S-video output on a 4-pin mini DIN connector.
- **Audio-** Four switchable audio inputs, each with independent gain and attenuation, on captive screw connectors.
- **Auxiliary mix audio-** An additional input accepts mono line level audio signals for mixing with any of the four switchable inputs.
- **Control-** Switcher control is available through front panel buttons or RS-232. RS-232 control is provided via Extron's Windows-based control software, and/or a third party control system using Extron Simple Instruction Set (SIS). When the switcher is used with the MLC 206, it can remotely control the MLS 103 SV's I/O switching and volume control.

MLS 102 VGA: MediaLink VersaTools Computer-Video and Audio Switcher

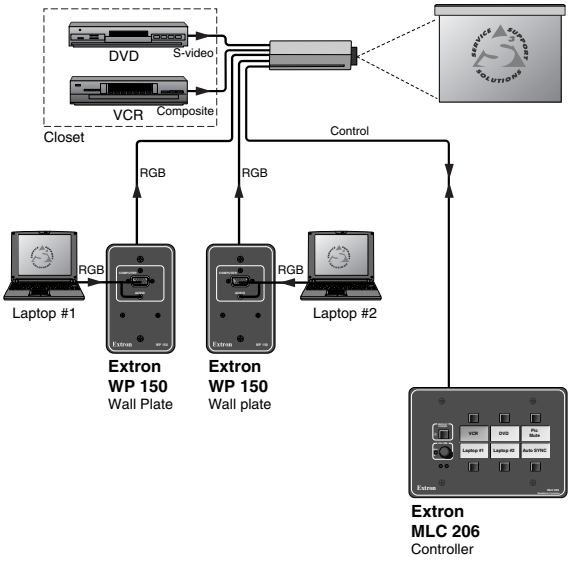
Part #: 60-497-04

- **Bandwidth-** 250 MHz (-3dB) video bandwidth maintains signal integrity.
- **Video inputs-** Two inputs on female 15-pin HD connectors accept RGB.
- **Video outputs-** The MLS 102 VGA provides RGB output on a female 15-pin HD connector.
- **Audio-** The MLS 102 VGA offers four switchable audio inputs, each with independent gain and attenuation. Inputs one and two are on 3.5 mm stereo mini (unbalanced only) jacks for use with VGA and audio cable, while inputs three and four are on captive screw connectors.
- **Auxiliary mix audio-** An additional input accepts mono line level audio signals for mixing with any of the four switchable inputs.
- **Volume control-** Adjustable when integrated with MediaLink System or as part of a third party RS-232 control system.
- **Control-** Switcher control is available through front panel buttons or RS-232. RS-232 control is provided via Extron's Windows-based control software, and/or a third party control system using Extron Simple Instruction Set (SIS). When the switcher is used with the MLC 206, it can remotely control the MLS 102 VGA's I/O switching and volume control.

MediaLink™ Applications

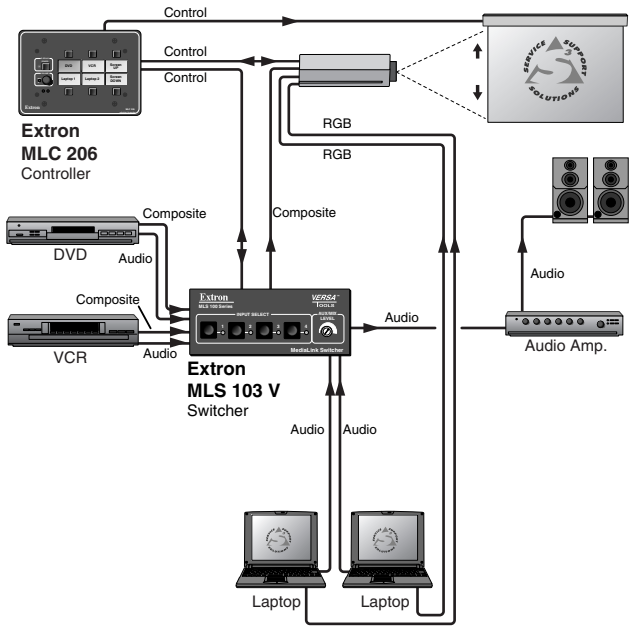
Classroom

In a small classroom, instructors with little or no training can operate an A/V system's projector with the MLC 206 MediaLink Controller. For simple system control, the MLC 206 can control a projector's power, input switching, and volume control. No matter what type of projector is used, the control interface remains the same. Even though the MLC 206 is not a switcher, it can tell the projector to switch between its various inputs. The MLC 206 can also offer intuitive equipment and room control with clearly labeled buttons and one-button functionality. The room control features of the MLC 206 can be configured to control functions such as screen position or room lights. When additional inputs are needed, a MediaLink switcher, such as the MLS 306 or 506, can be added to expand the capabilities of the system.



Conference Room

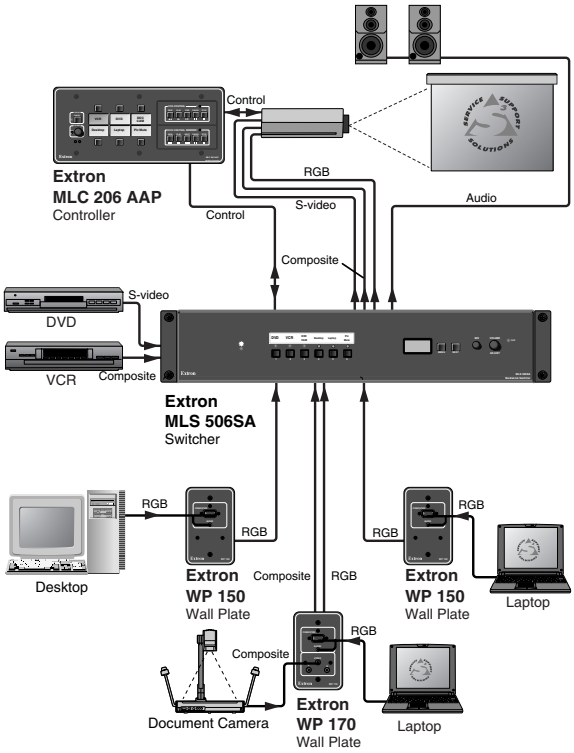
In simple conference rooms where additional inputs may be needed, the MLS 103 V MediaLink Switcher can do the job. The MLS 103 V is a compact, composite video with audio switcher. It comes with three video inputs and one video output. When used with a MLC 206 MediaLink Controller, input switching and volume control are achieved via the straightforward user interface. In one example, a DVD player, VCR, and two laptops can be easily incorporated as video sources. For audio switching, the MLS 103 V conveniently offers preamp volume control. As part of the Extron VersaTools™ line of products, the MLS 103 V is housed in a quarter rack width metal enclosure, making it ideal for installations in podiums and other small space areas. It is designed to be used as a stand-alone switcher or as an add-on for the MLC 206 to facilitate trouble-free, low-cost system integration.



MediaLink™ Applications

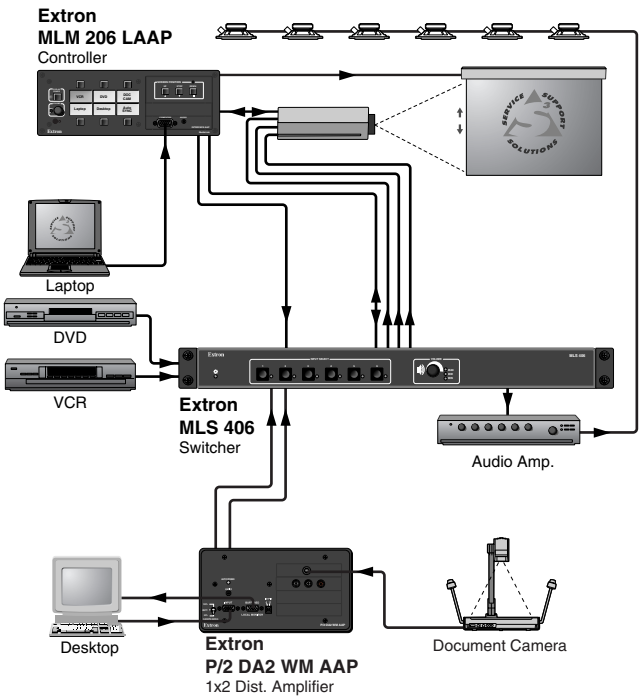
Enhanced classroom

For classrooms that utilize higher end systems with additional inputs, as well as audio, the MLS 506SA MediaLink Switcher and the MLC 206 AAP are a perfect combination. The MLS 506SA provides all the features of the MLS 506MA. The sole difference is in the type of amplified audio output. The MLS 506SA provides 30 watt, amplified stereo audio output (60 watts total) into 4 or 8 ohm speaker loads for use of program speakers at the front of the room.



Auditorium

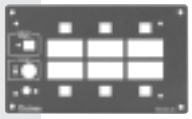
In auditoriums, multiple projector inputs as well as an optimum sound system will require a state-of-the-art system. Together, the MLC 206 MediaLink Controller and MLS 406 MediaLink Switcher can create an easy to use, smoothly integrated system. Coupled to an external amplifier, the MLS 406 offers preamp volume control as well as bass and treble control. Balanced or unbalanced stereo audio switching is provided for each input. Because of its compact size (one rack unit), the MLS 406 is ideal for installation in an auditorium's lectern.



Accessories

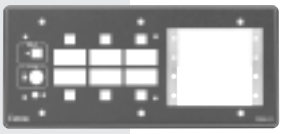
Mounting Options

The MediaLink™ System offers a variety of mounting configurations for the MLC 206 MediaLink Controller. Most options are available in gray, black, or white. Mounting brackets and junction boxes are also available for all face plate options.



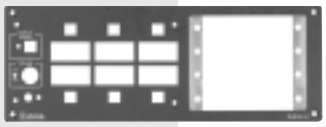
MLM-L: 3.5" tall, low-profile lectern mounting kit

Model	Part number
MLM-L	60-387-0X



MLM-5GWP: five-gang wall plate with four AAPs for mounting in a wall, desk, or lectern

Model	Part number
MLM-5GWP	60-407-0X

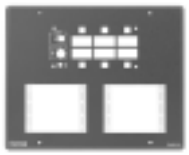


MLM-LAAP: 3.5" tall, lectern mounting kit with four AAP openings

Model	Part number
MLM-LAAP	60-389-0X

MLM-RAAP: 2U rack mounting kit with eight AAP openings

Model	Part number
MLM-RAAP	60-391-0X



MLM-10X8P: mounting kit with eight AAPs for mounting in a wall, desk, or lectern

Model	Part number
MLM-10X8P	60-392-0X

MLM-UDSM: under-desk, slide mounting chassis (shown with MLC 206 and optional AAP plates)

Model	Part number
MLM-UDSM	60-394-0X

MLM-WB: metal wall box for the MLC 206 and a VCR

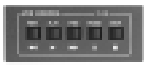
Model	Part number
MLM-WB	60-393-0X

MLM-WB+: Metal wall box for the MLC 206 with flip-down 4U rack space to hold a VCR, DVD player, MediaLink Switcher, System 5 IP switcher or other rack-mountable A/V equipment

Model	Part number
MLM-WB+	60-458-0X

Control Options

Extron offers hundreds of Architectural Adapter Plates (AAP) options to choose from. The MLC 206 can also be matched with a wide selection of IR control module AAPs that provide additional control support for VCRs, DVDs, screens, and lighting. AAPs are available in various configurations and colors (gray, black, or white).



IRCM-VCR: VCR remote control module

Model	Part number
IRCM-VCR	70-148-0X

IRCM-DVD: DVD player remote control module

Model	Part number
IRCM-DVD	70-149-0X

IRCM-DV+: Dual function VCR and DVD remote control module provides control of a VCR and DVD player's most commonly used functions.

Model	Part number
IRCM-DV+	70-220-0X

IRCM-Tape: Audio tape player remote control module

Model	Part number
IRCM-Tape	70-180-0X

ACM-Tone: Audio tone adjustment remote control module

Model	Part number
ACM-Tone	70-181-0X

ACM-Level: Audio level adjustment remote control module

Model	Part number
ACM-Level	70-182-0X

AC Net AAP: AAP with an unswitched AC outlet and connection point for phone or network connection.

Model	Part number
AC Net AAP	70-150-0X

RCM-SC: Projection screen positioning relay control module

Model	Part number
RCM-SC	70-183-0X

RCM-SCLT: Projection screen positioning and lighting relay control module

Model	Part number
RCM-SCLT	70-184-0X

The **MLA-Remote** is an IR remote control for the MediaLink Controller or Switcher.

Model	Part number
MLA Remote	70-154-01

The **IR Link** for Extron IR remotes is a single-gang, wall-mountable IR signal repeater and is available in gray, black, or white.

Model	Part number
IR Link	60-404-0X

Specifications

MediaLink Switchers

VIDEO INPUT

Gain ..... Unity
Bandwidth
MLS 103 V/SV, MLS 102 VGA ..... 250 MHz (-3dB)
MLS 304/406 Series ..... 280 MHz (-3dB)
MLS 506 Series ..... 350 MHz (-3dB)

VIDEO INPUT

MLS 103 V ..... 3 video; BNC
MLS 103 SV ..... 3 S-video; 4-pin mini DIN
MLS 102 VGA ..... 2 RGB; 15-pin HD (VGA connector)
MLS 304MA ..... 2 RGB: female 15-Pin HD
2 composite video: female RCA
MLS 406, MLS 406MA ..... 3 RGB: female 15-Pin HD
3 S-video: female 4-pin mini DIN
3 composite video: female BNC
MLS 506 Series ..... 3 RGB; BNC, 3 component video; BNC,
S-video 4-pin mini DIN, or video; BNC

VIDEO & LOOP THROUGH OUTPUT

MLS 103 V ..... 1 video; BNC
MLS 103 SV ..... 1 S-video; 4-pin mini DIN
MLS 102 VGA ..... 1 RGB; 15-pin HD (VGA connector)
MLS 304MA ..... 1 RGB : 5 female BNC
1 RGB loop-through: female 15-pin HD
MLS 406, MLS 406MA ..... 1 RGB: 5 female BNC
1 RGB loop-through: female 15-pin HD
MLS 506 Series ..... 1 RGB, 1 composite video, 1 S-video; all BNC's

SYNC

Sync formats ..... RGBHV, RGBS, RGsB, RsGsBs
Input levels ..... 2V to 5V p-p
Output levels ..... TTL: 5.0V p-p
Standards ..... NTSC 3.58, NTSC 4.43, PAL, SECAM

AUDIO

Frequency response
MLS 100 Series ..... 20 Hz to 20 kHz, ±0.5dB
MLS 304/406 Series
Preamp/Lineout ..... 20 Hz to 20 kHz, +0dB/-0.5dB
Direct (8 ohm) ..... 20 Hz to 20 kHz, +0dB/-1.5dB at 1 watt output
MLS 506 ..... 20 Hz to 20 kHz, +0dB/-3dB
MLS 506MA ..... 20 Hz to 20 kHz, +0dB/-2dB at 30 W into 8 ohms
MLS 506SA ..... 20 Hz to 20 kHz, +0dB/-1dB at 30 W into 8 ohms
THD + Noise
MLS 100 Series ..... <0.5% @ 1 kHz at nominal level
MLS 304/406 Series ..... <0.05% @ 1 kHz at rated maximum power output
MLS 506 ..... <0.2% @ 50 Hz to 22 kHz at nominal level
MLS 506MA (amp. output) ..... <1% @ 50 Hz to 20 kHz at 30 watts into 8 ohms
<0.05% @ 1 kHz at 30 watts into 8 ohms
MLS 506SA (amp. output) ..... <0.5% @ 1 kHz at 30 W into 8 ohms
S/N ..... >90dB at 22 Hz to 22 kHz

AUDIO INPUT

Number/signal type
MLS 100 Series ..... 4 stereo/mono, unbalanced (switchable)
1 mono, balanced/unbalanced aux/mix (always active, non-switchable)
MLS 304MA ..... 4 stereo, unbalanced
1 Aux/Mix balanced/unbalanced mono (non-switchable)
MLS 406, MLS 406MA ..... 5 stereo, unbalanced (inputs 1-3, 5, 6)
1 stereo, balanced/unbalanced (input 4)
1 Aux/Mix balanced/unbalanced mono (non-switchable)
MLS 506 ..... 6 stereo, balanced/unbalanced
MLS 506MA/SA ..... 6 stereo, balanced/unbalanced (switchable)
1 balanced/unbalanced aux/mix (non-switchable)
Connectors
MLS 100 A, MLS 103 V/SV ..... (5) 3.5 mm captive screw, 3 pole
MLS 102 VGA ..... 2 mini stereo jacks (female tip-ring-sleeve connectors)
(3) 3.5 mm captive screw, 3 pole
MLS 304MA
Inputs 1 & 2 ..... 2 pairs of female RCA connectors
Inputs 3 & 4 ..... 2 female 3.5 mm mini stereo jacks
Aux/Mix ..... (1) 3.5 mm captive screw connector, 3-pole
MLS 406, MLS 406MA
Inputs 1 – 3 ..... 3 pairs of female RCA connectors
Input 4 ..... 1 female 3.5 mm captive screw connector, 5-pole
Input 5 & 6 ..... 2 female 3.5 mm mini stereo jacks
Aux / Mix ..... (1) 3.5 mm captive screw connector, 3-pole
MLS 506 ..... (6) 3.5 mm captive screw, 5-pole
MLS 506MA/SA ..... (7) 3.5 mm captive screw, 5-pole
Nominal level ..... -20dBV (100mV), -10dBV (316mV), 0dBu (1V), or +4dBu (1.23V)
NOTE: 0dBu = 0.775 volts (RMS). 0dBV = 1 volt

Input gain adjustment
MLS 100 Series ..... -18dB to +24dB, adjustable per input (via RS-232/control software)
MLS 304/406 Series ..... -42dB to +24dB, adjustable per input
MLS 506 ..... -15dB to +9dB, adjustable per input
MLS 506MA, MLS 506SA) ..... -42dB to +24dB, adjustable per input

AUDIO– EFFECTS RETURN (MLS 506MA & MLS 506SA)

Number/signal type ..... 1 stereo, unbalanced
Connectors ..... (1) 3.5 mm captive screw connector, 3-pole
Level ..... +4dBu, unbalanced

AUDIO– EFFECTS SEND (MLS 506MA & MLS 506SA)

Number/signal type ..... 1 stereo, unbalanced
Connectors ..... (1) 3.5 mm connector, 3-pole
Level ..... +4dBu, unbalanced

AUDIO OUTPUT– LINE LEVEL (ALL MODELS)

Number/signal type
MLS 100 Series ..... 1 stereo or mono, balanced/unbalanced
All other models ..... 2 stereo/mono (selectable), balanced/ unbalanced (1 fixed, 1 variable)
Connectors
MLS 100 Series ..... (1) 3.5 mm captive screw, 5 pole
All other models ..... (2) 3.5 mm connectors, 5 pole
Gain — fixed output
MLS 304/506 series ..... +6dB balanced
Gain — variable output only ..... +6 or 0dB (selectable)

AUDIO OUTPUT– POWER AMP (MLS 506MA & MLS 506SA)

Connectors ..... 4 position screw terminal
Sensitivity ..... -20dBu (100mV) for 30 watts output
Drive/power (full power out) ..... < 0.5% THD from 20 Hz to 20 kHz:
MLS 506MA (mono) ..... 30 watts (RMS); 4 ohm, 8 ohm, or 70/100V output taps with common/ground, transformer coupled
MLS 506SA (stereo) ..... 60 watts; 30 watts (RMS) per channel, 4 ohm or 8 ohm load

CONTROL/REMOTE–SWITCHER

Serial control port
RS-232 Control ..... MLS 100 Series, 3.5 mm, 5-pole connector
MLS 304/506 series ..... female 9-pin D connector (shared with contact closure port)
Contact closure ..... 1 female 9-pin D connector (shared with serial control port)
IR control port ..... (1) 3.5 mm captive screw, 5 pole (shared with the MLC/IR serial control port) for 38 kHz IR signals

GENERAL

Power (MLS 100 Series) ..... 12VDC, 0.4 A
Power (other models) ..... 100VAC to 240VAC, 50/60 Hz, internal, auto switchable
MLS 304, MLS 406, MLS 506 ..... 20 watts
MLS 506MA / MLS 506SA ..... 60 watts / 100 watts
Rack mount ..... Yes
Enclosure type ..... Metal
Enclosure dimensions (cm)
MLS 100 Series ..... 1.7" (4.2) H x 4.3" (11.0) W x 3.0" (7.6) D
MLS 304, MLS 406 ..... 1.75" (4.4) H x 17.5" (44.4) W x 9.4" (23.9) D
MLS 506 Series ..... 3.5" (8.9) H x 17.5" (44.4) W x 9.4" (23.9) D

Specifications are subject to change without notice.

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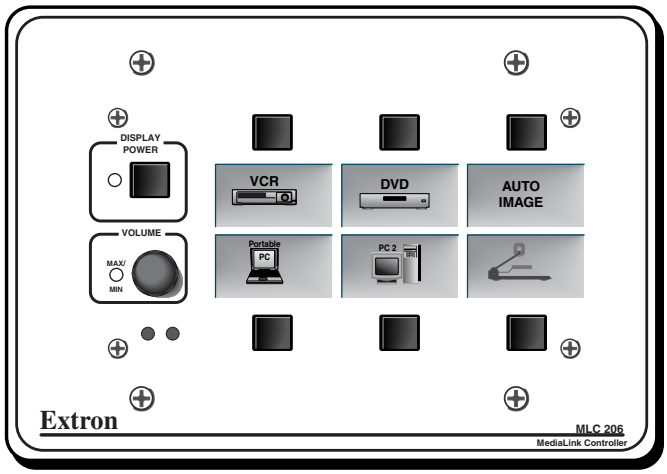
Specifications

MediaLink Controller MLC 206



MLC 206

CONTROL/REMOTE– CONTROLLER

Serial control port..... RS-232, 9-pin female D connector
Baud rate and protocol ..... 9600, 8-bit, 1 stop bit, no parity
Serial control
pin configurations ..... 2 = TX, 3 = RX, 5 = GND
Slave switcher control port.. (1) 3.5 mm direct insertion captive screw connector, 4 pole
Program control ..... Extron's control program for Windows®
Extron's Simple Instruction Set– SIS™

CONTROL– ROOM RELAYS

Number/type..... 3 momentary or latching (configurable via control software)
Connectors ..... (1) 3.5 mm direct insertion captive screw connector, 6 pole
Contact rating ..... 24V, 1 A

CONTROL– PROJECTOR/SOURCE

Display/source
control port (IR) ..... (1) 3.5 mm direct insertion captive screw connector, 5 pole (also used for IRCM control)
Display/source control
port (RS-232) ..... (1) 3.5 mm direct insertion captive screw connector, 5 pole
IR learning frequencies..... 30 kHz to 62 kHz
IR learning distance ..... 4" (10 cm) to 14" (36 cm) from the MLC's faceplate

GENERAL

Power ..... 12VDC, 0.38 A from an optional MediaLink Switcher (MLS) or the included 100VAC to 240VAC, 50/60 Hz, external, auto-switchable, 12VDC, 1 A max. power supply.
Temperature/humidity
Storage..... -40° to +158°F (-40° to +70°C) / 10% to 90%,
non-condensing
Operating ..... +32° to +122°F (0° to +50°C) / 10% to 90%,
non-condensing
Rack mount ..... Yes, with optional MLM-RAAP rack mounting kit; also furniture or wall-mountable
Enclosure type ..... Metal

Enclosure dimensions
Faceplate (MLC 206)..... 4.5" H x 6.4" W x 0.1" D (3 gang)
(11.4 cm H x 16.3 cm W x 0.3 cm D)
Controller ..... 2.75" H x 5.25" W x 1.2" D
(fits in a 3-gang box)
(7.0 cm H x 13.3 cm W x 3.1 cm D)
NOTE: Depth excludes connectors and knobs.
Allow at least 1.75" depth within the wall or furniture.
Product weight ..... 1.7 lbs (0.8 kg)
Shipping weight ..... 6 lbs (2.7 kg)
Vibration ..... ISTA/NSTA 1A in carton (International Safe Transit Association)
Listings..... UL, CUL
Compliances..... CE, FCC Class A, VCCI, AS/NZS, ICES
MTBF ..... 30,000 hours
Warranty ..... 3 years parts and labor

MODEL	PART NUMBER
MLC 206 (gray).....	60-385-01
MLC 206 (black)	60-385-02
MLC 206 (white).....	60-385-03
MLC 206 AAP (gray).....	60-460-01
MLC 206 AAP (black)	60-460-02
MLC 206 AAP (white).....	60-460-03
MLC 206 EC (white)	60-385-10
MLC 206 AAP EC (white)	60-460-10

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Extron Electronics, USA
1230 South Lewis Street
Anaheim, CA 92805
800.633.9876 714.491.1500
FAX 714.491.1517

Extron Electronics, Europe
Beeldschermweg 6C
3821 AH Amersfoort, The Netherlands
+800.3987.6673 +31.33.453.4040
FAX +31.33.453.4050

Extron Electronics, Asia
135 Joo Seng Rd. #04-01
PM Industrial Bldg., Singapore 368363
+800.7339.8766 +65.6383.4400
FAX +65.6383.4664

Extron Electronics, Japan
Daisan DMJ Bldg. 6F, 3-9-1 Kudan Minami
Chiyoda-ku, Tokyo 102-0074
Japan
+81.3.3511.7655 FAX +81.3.3511.7656

03-11
68-650-01
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www.camboard.de Tel. 07131 911201 ce.info@camboard.de
Fax 07131 911203